

**ISOLATED DNA ENCODING CULLIN REGULATORS ROC1 AND  
ROC2, ISOLATED PROTEINS ENCODED BY SAME, AND METHODS  
UTILIZING THE SAME**

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**ABSTRACT**

10 The present invention provides isolated polynucleotide sequences encoding  
the proteins ROC1 and ROC2, the isolated proteins themselves, expression vectors  
containing at least a fragment of the ROC1 and ROC2 polynucleotide sequences,  
and host cells comprising the same. Methods of producing the ROC1 and ROC2  
15 proteins are also disclosed, and methods of detecting the polynucleotides in  
samples are included in this invention, as are antibodies to the ROC1 and ROC2  
proteins and antisense molecules complementary to polynucleotides encoding the  
same. The present invention further includes methods for screening bioactive  
agents that are capable of binding to a ROC protein, methods of screening  
20 bioactive agents capable of interfering with the binding of ROC proteins, and  
methods of screening bioactive agents capable of modulating the activity of a ROC  
protein. Such screening methods are capable of identifying compounds that have  
pharmacological . Pharmaceutical formulations comprising such  
pharmacologically active compounds and methods of administering the same are  
an additional aspect of this invention.